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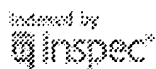
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<u>#3</u>	((piezo and grounded)<in>metadata)	0
<u>#4</u>	((piezo and (differentially or bipolar)) <in>metadata)	7
<u>#5</u>	((piezoelectric and (differentially or bipolar)) <in>metadata)	42
<u>#6</u>	((pzt and (differentially or bipolar))<in>metadata)	12



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Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	piezo ADJ piezoelectric ADJ pzt	unrestricted	0	-
2	INZZ	piezo OR piezoelectric OR pzt	unrestricted	75703	<a href="#">show titles</a>
3	INZZ	bipolar OR differential OR differentially	unrestricted	337352	<a href="#">show titles</a>
4	INZZ	data ADJ storage OR drive OR recording OR HDD	unrestricted	221142	<a href="#">show titles</a>
5	INZZ	2 AND 3 AND 4	unrestricted	76	<a href="#">show titles</a>
6	INZZ	insulated OR isolated	unrestricted	118717	<a href="#">show titles</a>
7	INZZ	suspension OR actuator OR arm OR e-block	unrestricted	63823	<a href="#">show titles</a>
8	INZZ	grounded	unrestricted	8316	<a href="#">show titles</a>
9	INZZ	5 AND 6	unrestricted	2	<a href="#">show titles</a>
10	INZZ	5 AND 7	unrestricted	4	<a href="#">show titles</a>
11	INZZ	5 AND 8	unrestricted	0	-
12	INZZ	9 OR 10	unrestricted	6	<a href="#">show titles</a>

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- ☐ Classification codes A: Physics, 4-5
- ☐ Classification codes A: Physics, 6
- ☐ Classification codes A: Physics, 7
- ☐ Classification codes A: Physics, 8
- ☐ Classification codes A: Physics, 9
- ☐ Classification codes B: Electrical & Electronics, 0-5
- ☐ Classification codes B: Electrical & Electronics, 6-9
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## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5	US-6078473-\$.DID. OR US-6108175-\$.DID. OR US-5656882-\$.DID. OR US-6157522-\$.DID. OR US-6134087-\$.DID.	US-PGPUB; USPAT	OR	OFF	2006/09/13 22:50
S2	5626	load adj beam	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:50
S3	703930	suspension	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S4	484682	actuator	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S5	3119677	via	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S7	1832054	hole	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S8	741486	aperture	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S9	8358074	through	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51

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S10	58756	pierced	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S11	2752957	opening	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S12	526898	pad	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S13	680751	bonding	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S14	1259630	lead	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S15	2808497	connection	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:51
S16	5549110	electric\$5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S17	648440	wire?	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52

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S18	533970	wiring	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S19	4259699	circuit\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S20	53595	piezo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S21	199066	piezoelectric	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S22	21186	piezo?electric	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:52
S23	19632	PZT	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:52
S24	688868	differential	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:52
S25	56703	differentially	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:52

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S26	150229	bipolar	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:53
S27	446	bipolarity	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:53
S28	1163003	S2 S3 S4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55
S29	11036754	S5 S7 S8 S9 S10 S11	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55
S30	53595	piezo	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
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S34	243422	S30 S31 S32 S33	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55
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S36	680751	bonding	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
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S38	2808497	connection	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S39	5549110	electric\$5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
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S41	533970	wiring	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55



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S42	4259699	circuit\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S43	10378253	S35 S36 S37 S38 S39 S40 S41 S42	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:55
S44	3119677	via	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S45	1832054	hole	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S46	741486	aperture	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
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S49	2752957	opening	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55

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S50	5626	load adj beam	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S51	703930	suspension	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S52	484682	actuator	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 22:55
S53	1163003	S50 S51 S52	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:56
S54	9260	S34 with S43 with S53	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:56
S55	9260	(S35 S36 S37 S38 S39 S40 S41 S42) with S54	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:58
S56	1550	(S44 S45 S46 S47 S48 S49) with S54	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:58
S57	187966	("360"/\$ "369"/\$ "720"/\$ 29/603\$).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/13 22:59

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S58	83	S56 and S57	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S59	259	(360/294.4).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S60	98	(360/294.3).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S61	54	(360/294.1).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S62	84	(360/294.7).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S63	15	(360/294).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S64	60	(360/290).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S65	35	(360/291.9).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10

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S66	20	(360/292).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S67	50	(360/244).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S68	139	(360/244.2).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S69	115	(360/245.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:10
S70	113	(360/244.5).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:11
S71	960	S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:18
S72	434	pass?thru	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:18
S73	11914	pass?through	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:18

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S74	756995	suspension	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:19
S75	31	(S72 S73) with (S74)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 00:19